## THAT WHICH IS CLAIMED IS:

1. An antenna assembly to be worn by a user and comprising:

an antenna comprising

a dipole feed,

a first dipole element connected to and extending outwardly from said dipole feed in a first direction,

a transmission line extending from said dipole feed in a second direction opposite the first direction, and

a flexible electrically conductive sleeve surrounding said transmission line and connected to and extending outwardly from said dipole feed to serve as a second dipole element and as a balun; and

at least one fastener to removably fasten the antenna to a garment of the user.

- 2. An antenna assembly according to Claim 1 wherein said dipole feed comprises a broadband matching network.
- 3. An antenna assembly according to Claim 1 further comprising a noise filter coupled to said transmission line adjacent an end of said flexible electrically conductive sleeve opposite said dipole feed.
- 4. An antenna assembly according to Claim 3 wherein said noise filter comprises at least one ferrite

body coupled to said transmission line and a dielectric housing surrounding said at least one ferrite body.

- 5. An antenna assembly according to Claim 1 wherein said flexible electrically conductive sleeve is also shape-retaining when formed into a shape having at least one bend therein.
- 6. An antenna assembly according to Claim 1 wherein said flexible electrically conductive sleeve comprises a pair of spirally wound, interlocking, electrically conductive elements.
- 7. An antenna assembly according to Claim 1 wherein said at least one fastener comprises a pair of fasteners adjacent opposing ends of said flexible electrically conductive sleeve.
- 8. An antenna assembly according to Claim 1 wherein said at least one fastener comprises:

an Alice clip to connect to the garment of the user;

an Alice clip mounting bracket connected to said Alice clip; and

a quick release knob carried by said Alice clip mounting bracket.

9. An antenna assembly according to Claim 1 wherein said first dipole element comprises a flexible electrical conductor.

- 10. An antenna assembly according to Claim 1 further comprising a connector coupled to an end of said transmission line opposite said dipole feed.
- 11. An antenna assembly according to Claim 10 further comprising a length of coaxial coupled to said connector.
- 12. An antenna assembly according to Claim 1 wherein said transmission line comprises a coaxial transmission line.
  - 13. An antenna comprising:
- a dipole feed comprising a broadband matching network;
- a first dipole element connected to and extending outwardly from said dipole feed in a first direction;
- a transmission line extending from said dipole feed in a second direction opposite the first direction;
- a flexible electrically conductive sleeve surrounding said transmission line and connected to and extending outwardly from said dipole feed to serve as a second dipole element and as a balun; and
- a noise filter coupled to said transmission line adjacent an end of said flexible electrically conductive sleeve opposite said dipole feed.
- 14. An antenna according to Claim 13 wherein said noise filter comprises at least one ferrite body coupled to said transmission line and a dielectric housing surrounding said at least one ferrite body.

- 15. An antenna according to Claim 13 wherein said flexible electrically conductive sleeve is also shape-retaining when formed into a shape having at least one bend therein.
- 16. An antenna according to Claim 13 wherein said flexible electrically conductive sleeve comprises a pair of spirally wound, interlocking, electrically conductive elements.
- 17. An antenna according to Claim 13 wherein said first dipole element comprises a flexible electrical conductor.
- 18. An antenna according to Claim 13 further comprising a connector coupled to an end of said transmission line opposite said dipole feed.
- 19. An antenna according to Claim 13 wherein said transmission line comprises a coaxial transmission line.
- - a dipole feed,
  - a first dipole element connected to and extending outwardly from said dipole feed in a first direction,

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- a transmission line extending from said dipole feed in a second direction opposite the first direction, and
- a flexible electrically conductive sleeve surrounding said transmission line and connected to and extending outwardly from said dipole feed matching network to serve as a second dipole element and as a balun; and at least one fastener to removably fasten said antenna to a garment of the user.
- 21. A communications system according to Claim 20 wherein said dipole feed comprises a broadband matching network.
- 22. A communications system according to Claim 20 further comprising a noise filter coupled to said transmission line adjacent an end of said flexible electrically conductive sleeve opposite said dipole feed.
- 23. A communications system according to Claim 22 wherein said noise filter comprises at least one ferrite body coupled to said transmission line and a dielectric housing surrounding said at least one ferrite body.
- 24. A communications system according to Claim 20 wherein said flexible electrically conductive sleeve is also shape-retaining when formed into a shape having at least one bend therein.

- 25. A communications system according to Claim 20 wherein said flexible electrically conductive sleeve comprises a pair of spirally wound, interlocking, electrically conductive elements.
- 26. A communications system according to Claim 20 wherein said at least one fastener comprises a pair of fasteners adjacent opposing ends of said flexible electrically conductive sleeve.
- 27. A communications system according to Claim 20 wherein said first dipole element comprises a flexible electrical conductor.
- 28. A communications system according to Claim 20 further comprising:
- a connector coupled to an end of said transmission line opposite said dipole feed; and
- a length of coaxial coupled between said connector and said radio.
- 29. A method for making an antenna comprising: coupling a first dipole element comprising a broadband matching network to and extend outwardly from a dipole feed in a first direction;

coupling a transmission line to extend from the dipole feed in a second direction opposite the first direction;

providing a flexible electrically conductive sleeve surrounding the transmission line and coupled to and extending outwardly from the dipole feed to serve as a second dipole element and as a balun; and

coupling a noise filter to the transmission line adjacent an end of the flexible electrically conductive sleeve opposite the dipole feed.

- 30. A method according to Claim 29 wherein the flexible electrically conductive sleeve is also shaperetaining.
- 31. A method according to Claim 29 wherein the first dipole element comprises a flexible electrical conductor.
- 32. A method according to Claim 29 further comprising coupling a connector to an end of the transmission line opposite the dipole feed.